



SEQUENCE LISTING

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Israelsen, Hans

<120> REGULATION OF PROMOTER ACTIVITY IN CELLS

<130> 54320.000010

<140> US 09/982,532
<141> 2001-10-19

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<170> PatentIn version 3.1

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gttacagccc tgtatatggc gaaataaatg aataaaaaat agcgagtaga tgagttttta 180

aatgaaagaa atggcaaācg taaacattga atatctaatac aatacactgg aacaaaaaaaa 240
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 aaaagtaatt ggagtgttg ataataaaat tatgatttat aatcctcaat acttagaaga 840
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 20 25 30

His Ser Tyr Ile Met Tyr Gln Gly Ile Glu Ser Glu Tyr Ile Tyr Val
 35 40 45

Leu Lys Asp Gly Val Ala Lys Ile Ser Asn Ile Leu Arg Asp Gly Arg
 50 55 60

Glu Phe Asn Ile Ala Tyr Val Ala Glu Pro Asp Phe Val Ser Leu Leu
 65 70 75 80

Glu Glu Lys Gln Asn Asp Gly Ile Ser Ala Leu Phe Asn Val Arg Ile
 85 90 95

Glu Ser Pro Thr Ala Ser Phe Tyr Lys Ile Ser Arg Ser Asp Phe Trp

100

105

110

Asn Trp Val Arg Glu Asp Leu Asn Leu Phe Arg Val Val Asp Asp Phe
 115 120 125

Tyr Lys Arg Arg Leu Ala Leu Asn Leu Glu Ile Leu Gln Lys Met Thr
 130 135 140

Ile Asn Gly Lys Lys Gly Ala Val Cys Ala Cys Leu His Ser Leu Ile
 145 150 155 160

Asp Asp Phe Gly Ile Arg Lys Lys Asp Gly Ile Leu Ile Asp Phe Thr
 165 170 175

Val Thr Asn Glu Asp Ile Ala Gly Phe Cys Gly Ile Ser Thr Arg Asn
 180 185 190

Ser Val Asn Arg Ile Leu His Asp Leu Lys Asp Glu Lys Val Ile Gly
 195 200 205

Val Ile Asp Asn Lys Ile Met Ile Tyr Asn Pro Gln Tyr Leu Glu Glu
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Tyr Ile Ser
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 35 40 45

Leu Lys Asp Gly Val Ala Lys Ile Ser Asn Ile Leu Arg Asp Gly Arg
 50 55 60

Glu Phe Asn Ile Ala Tyr Val Ala Glu Pro Asp Phe Val Ser Leu Leu
65 70 75 80

Glu Glu Lys Gln Asn Asp Gly Ile Ser Ala Leu Phe Asn Val Arg Ile
85 90 95

Glu Ser Pro Thr Ala Ser Phe Tyr Lys Ile Ser Arg Ser Asp Phe Trp
100 105 110

Asn Trp Val Arg Glu Asp Leu Asn Leu Phe Arg Val Val Asp Asp Phe
115 120 125

Tyr Lys Arg Arg Leu Ala Leu Asn Leu Glu Ile Leu Gln Lys Met Thr
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Ile Asn Gly Lys Lys Gly Ala Val Cys Ala Cys Leu His Ser Leu Ile
145 150 155 160

Asp Asp Phe Gly Ile Arg Lys Lys Asp Gly Ile Leu Ile Asp Phe Thr
165 170 175

Val Thr Asn Glu Asp Ile Ala Gly Phe Cys Gly Ile Ser Thr Arg Asn
180 185 190

Ser Val Asn Arg Ile Leu His Asp Leu Lys Asp Glu Lys Val Ile Gly
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Val Ile Asp Asn Lys Ile Met Ile Tyr Asn Pro Gln Tyr Leu Glu Glu
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Tyr Ile Ser
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<213> Bacillus licheniformis

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Asp Thr Phe Leu Phe Gln Glu Gly Met Asp Ala Glu Glu Leu Tyr Leu
 35 40 45

Ile Gln Ser Gly Leu Val Gln Ile Gly Lys Leu Thr Ser Asp Gly Lys
 50 55 60

Glu Leu Thr Leu Arg Met Cys Lys Lys Asn Asp Ile Val Gly Glu Leu
 65 70 75 80

Thr Leu Phe Thr Glu Asp Ala Lys Tyr Met Leu Ser Ala Lys Ile Leu
 85 90 95

Ser Asp Gly Glu Val Leu Val Ile Asn Lys Asp Lys Leu Glu Lys Glu
 100 105 110

Leu Ile Gln Asn Gly Ala Leu Thr Phe Glu Phe Met Lys Trp Met Ser
 115 120 125

Thr His Leu Arg Lys Ile Gln Ser Lys Ile Arg Asp Leu Leu Leu Asn
 130 135 140

Gly Lys Lys Gly Ala Leu Tyr Ser Thr Leu Ile Arg Leu Ala Asn Ser
 145 150 155 160

Tyr Gly Ile Thr Arg Ser Asp Gly Ile Leu Ile Asn Ile Val Leu Thr
 165 170 175

Asn Gln Asp Leu Ala Lys Phe Cys Ala Ala Ala Arg Glu Ser Ile Asn
 180 185 190

Arg Met Leu Ser Asp Leu Arg Lys Asn Gly Val Ile Ser Ile Glu Asp
 195 200 205

Ser Gly Lys Ile Val Ile His Gln Ile Asn Tyr Leu Lys Arg Glu Ile
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Asp Cys Glu Asn Cys Pro Leu Glu Ile Cys Asn Ile Asp
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<212> DNA
<213> Lactobacillus lactis

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